THIS OPINION WAS NOT WRITTEN FOR PUBLICATION

The opinion in support of the decision being entered today

- (1) was not written for publication in a law journal and
- (2) is not binding precedent of the Board.

Paper No. 19

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

Ex parte AKIHIRO NISHI

Appeal No. 1997-1381 Application 08/188,925¹

Heard: October 06, 1999

Before HAIRSTON, HECKER, and GROSS, <u>Administrative Patent</u> <u>Judges</u>.

HECKER, Administrative Patent Judge.

DECISION ON APPEAL

This is a decision on appeal from the final rejection of claims 1 through 23 and 27 through 32, all claims pending in this application.

¹Application for patent filed January 31, 1994.

The invention relates to an image printer. The printer receives image data from a host computer. When a problem is detected, such as a paper jam, the image data is compressed and stored in a compressed format. Thus, when the image printing function is suspended because of the detected problem, the printer can continue to receive image data, thus enabling the host computer to continue with other operations. Because the image data received after the detection of a problem is compressed, the image data can be stored in a relatively small capacity memory.

Representative independent claim 1 is reproduced as follows:

- 1. a printer apparatus arranged to actuate an image forming means based on a received print data for printing an image based on the print data, said printer apparatus comprising:
- a detecting means for detecting trouble in the image forming means, $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left($
- a compressing means for initiating the compression of the received print data upon detection of the trouble,
 - a memory means for memorizing the compressed data,
- an expanding means for expanding data read from said memory means, and
 - a control for instructing starting of said expanding

means after elimination of the trouble and also, for printing the image by the image forming means based on the expanded data.

The Examiner relies on the following references:

Maniwa et al. (Maniwa) 4,860,119 Aug. 22, 1989 Hirata 4,920,427 Apr. 24, 1990

Claims 4, 5, 6, 8, 10, 11, 12, 14, 16, 17, 19, 21, 23, 27, 29, 30 and 32 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Maniwa et al. Claims 1, 2, 3, 7, 9, 13, 15, 18, 20, 22, 28 and 31 stand rejected under 35 U.S.C. § 103 as being unpatentable over Maniwa et al. in view of Hirata.

Rather than reiterate the arguments of Appellants and the Examiner, reference is made to the brief, reply brief, answer and supplemental answer for the respective details thereof.

OPINION

After a careful review of the evidence before us, we will not sustain the rejection of claims 4, 5, 6, 8, 10, 11, 12, 14, 16, 17, 19, 21, 23, 27, 29, 30 and 32 under 35 U.S.C. § 102 (b), and we will not sustain the rejection of claims 1, 2, 3, 7, 9, 13, 15, 18, 20, 22, 28 and 31 under 35 U.S.C. § 103.

With regard to the 35 U.S.C. § 102(b) rejection of claim
4, it is axiomatic that anticipation of a claim under § 102
can be found only if the prior art reference discloses every
element of the claim. See In re King, 801 F.2d 1324, 1326,
231 USPQ 136, 138 (Fed. Cir. 1986) and Lindemann

Maschinenfabrik GMBH v. American Hoist & Derrick Co., 730 F.2d
1452, 1458, 221 USPQ 481, 485 (Fed. Cir. 1984). "Anticipation
is established only when a single prior art reference
discloses, expressly or under principles of inherency, each
and every element of a claimed invention." RCA Corp. v.

Applied Digital Data Systems, Inc.,
730 F.2d 1440, 1444, 221 USPQ 385, 388 (Fed. Cir. 1984), cert.
dismissed, 468 U.S. 1228 (1984), citing Kalman v. KimberlyClark Corp., 713 F.2d 760, 772, 218 USPQ 781, 789 (Fed. Cir.
1983).

Claim 4 requires, among other things:

- a detecting means for detecting trouble of the print means,
- a compressing means for initiating the compression of the print data inputted from said external device **when the trouble** of the print means **is detected**, (Emphasis added.)

In applying the Maniwa reference, trouble of the print

means is the occurance of a paper jam. The Examiner and Appellant go back and forth regarding the issue of whether Maniwa compresses and stores print data upon occurance of a jam (Examiner's position) or, Maniwa compresses and stores print data upon receipt from a host computer and uses it to correct a jam (Appellant's position). Appellant argues that since Maniwa compresses and stores data when the data is received, the claim 4 limitation recited supra is not met by Maniwa. An example of some of the back and forth positions is presented below.

The Examiner contends:

Maniwa et al discloses at column 15, lines 55-58, "image data supplied from the host system is compressed and is then stored as backup data when paper jamming occurs". In addition, Maniwa et al discloses in column 36, lines 24-27, "As described previously, in the present printer controller 130, the backup buffers 191 are formed in the RAM 133 in order to recover data which would be lost if the paper is jammed". Finally, at column 37, line 6+, Maniwa et al discloses "When the backup is unnecessary, the process proceeds to step 1036 where the image data is stored into the temporary memory. Alternatively when it is detected at step 1032 that the backup is necessary, it is checked at step 1033 as to whether or not the image data should be compressed". (Answer-pages 10 and 11.)

Appellant argues:

The Examiner has relied heavily on a statement in the prior art reference at column 15, lines 55-58, which states that "image data supplied from host system is compressed and is then stored as backup data when paper jamming occurs".

The sentence is ambiguous because the phrase "when paper jamming occurs" could be interpreted to apply to the compression and storage steps together, or, alternatively, it could be interpreted as applying only to the storage step.

The Examiner has interpreted this statement as if the "when paper jamming occurs" phrase applies to both the compression and the storage steps. However, as set forth in the Brief for the Appellant, the Examiner's interpretation is inconsistent with the remainder of the reference.

If the Examiner's interpretation was correct, there would be no compression of the data until a paper jam occurs. Thus, there would be no compressed data in the backup buffer region unless a paper jam occurs. However, attention is directed to column 36, lines 61-63, wherein it states that when a page is completely discharged, i.e., successfully printed, the data is canceled from the backup buffer region. If the Examiner's interpretation was correct, there would be no reason for data to be in the backup buffer if a page was completely discharged, because according to the Examiner's position, data is only compressed and stored upon the detection of a paper jam. Thus, according to the Examiner's position, it would be impossible for data in the backup buffer to be canceled if a page was completely discharged. (Reply brief-pages 1 and 2.)

The Examiner responds:

(a)Attention is directed to column 36, lines 61-63, wherein the recitation is "When data regarding a

page which has been completely discharged is cancelled from the backup buffer region." The recitation does not mention "i.e. successfully printed", it is the Appellant interpretation that "When data regarding a page which has been completely discharged" means "i.e. successfully printed."

(B) If the Appellant interpretation is correct, image data supplied from the host system is compressed and is then stored as backup data when paper jamming occurs; (see column 15, lines 55-58) and (see column 36, lines 24-27), so that eventually the image data can be printed once the paper jam is corrected or eliminated. This is the reason why the image data is saved in the backup buffer. Once the paper jamming is corrected or eliminated, and "When data regarding a page which has been completely discharged" as noted at column 36, lines 61-63, (under the JAM BACKUP), (meaning after the paper jam is corrected or eliminated, otherwise the print data cannot be printed), the image data in the backup buffer is not needed any longer and therefore it is cancelled from the backup buffer region, because the image data was "i.e. successfully printed". (Supplemental answer-pages 2 and 3.)

We have carefully reviewed Maniwa and can understand how it is possible to interpret this reference in the two opposing ways presented by the Examiner and the Appellant. However, we agree with the Appellant that the weight of the evidence favors Appellant's interpretation.

Column 37, lines 4-6 recite:

The CPU 131 in the printer controller 130 looks up the designated information on the backup at the time of inputting the image data at step 1031 of

FIG. 34.

Thus, Figure 34 is directed to image data at the time of input, not at the time of jam. At the time of data input, Figure 34 determines which mode has been selected. If the backup/compressed data mode had been selected (mode 2, column 15, lines 55-58), the flow chart of Figure 34 would progress as follows:

- 1031 Image data input.
- 1032 Yes, backup has been selected.
- 1033 Yes, backup with compression has been selected.
- 1034 Image data is compressed.
- 1035 Compressed data is stored in backup buffer 191.

 As this scenario shows, data compression takes place upon data input from the host computer. Data compression does not hinge on the detection of a jam as claimed.

For these reasons, we will not sustain the rejection of claim 4.

As noted by the Appellant in footnote 3, page 5 of the Brief, and verified by us, each of the independent claims in

this application includes the element discussed above that links initiating compression of data upon detection of trouble, i.e., a

jam. Since Maniwa does not teach this limitation, we will not sustain the 35 U.S.C. § 102(b) rejection of any claims.

Since the Examiner has not indicated this limitation to be obvious over Maniwa and/or Hirata, we will not sustain the 35 U.S.C. § 103 rejection of any claims.

In view of the foregoing, the decision of the Examiner rejecting claims 4, 5, 6, 8, 10, 11, 12, 14, 16, 17, 19, 21, 23, 27, 29, 30 and 32 under 35 U.S.C. § 102(b) is reversed.

Likewise, the decision of the Examiner rejecting claims 1, 2, 3, 7, 9, 13, 15, 18, 20, 22, 28 and 31 under 35 U.S.C. § 103 is reversed.

REVERSED

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Kenneth W. Hairston
Administrative Patent Judge
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